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Reply to Office Action of December 19, 2005

Atty Dkt No. WAS 0653 PUSA

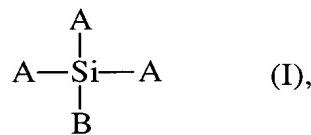
### Amendments to the Claims:

*This listing of claims will replace all prior versions, and listings, of claims in the application:*

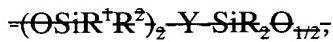
1.-12. (Cancelled).

13. (Currently Amended) A process for reducing formation of aerosol during coating of substrates with a crosslinkable silicone composition, comprising adding to said composition at least one antimisting additive which is a branched organosilicon compound comprising ~~In a process for coating substrates with a crosslinkable silicone coating composition wherein an antimisting additive is employed for reducing the formation of aerosol, the improvement comprising selecting as at least one antimisting additive, a branched organosilicon compound comprising~~

a) per molecule at least one unit of the formula



where A is a radical of the formula



R each independently is an identical or different a monovalent, aliphatically saturated hydrocarbon radical having 1 to 12 carbon atoms per radical or an aromatic hydrocarbon radical having 6 to 12 carbon atoms per radical,

R<sup>1</sup> is a radical of the formula



R<sup>2</sup> has the definition of R, R<sup>1</sup> or R', where R' being is a monovalent, aliphatically saturated hydrocarbon radical having from 1 to 12 carbon atoms per radical or an aromatic hydrocarbon radical having 6 to 12 carbon atoms per radical, containing and contains one or more non-adjacent heteroatoms selected from the group consisting of O, S, N, Si and Ti,

Y is a divalent hydrocarbon radical of the formula



R<sup>4</sup> is a divalent hydrocarbon radical having 1 to 10 hydrocarbon atoms per radical or is a chemical bond if v is 0,

R<sup>5</sup> is a hydrogen atom or has the definition of R,

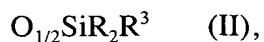
v is 0 or 1,

x each are identical or different and are independently is 0 or 1, and

z each are identical or different and are independently is 0 or 1,

and B has the definition of A, R, or R' with the proviso that B is R or R' if x is 0,

(b) per molecule at least one unit of the formula



where

R<sup>3</sup> is an aliphatically unsaturated hydrocarbon radical of the general formula



(c) optionally units of the formula



(d) optionally units of the formula



and

(e) optionally units of formula



where R is as defined above.

14. (Previously Presented) The process of claim 13, wherein the radical R<sup>3</sup> is a vinyl radical.

15. (Previously Presented) The process of claim 13, wherein Y is a group of the formula -CH<sub>2</sub>CH<sub>2</sub>-.

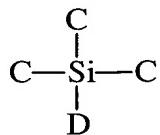
16. (Previously Presented) The process of claim 13, wherein x is 1 and z is 0.

17. (Currently Amended) A process for reducing formation of aerosol during coating of substrates with a crosslinkable silicone composition, comprising adding to said composition at least one antimisting additive which is a branched organosilicon compound  
In a process for coating substrates with a crosslinkable silicone coating composition wherein an antimisting additive is employed for reducing the formation of aerosol, the improvement

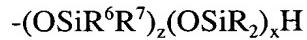
comprising selecting as at least one antimisting additive, a branched organosilicon compounds prepared by:

in a first step,

reacting compounds (1) of the formula



where C is a radical of the formula



where

x each are identical or different and are independently 0 or 1, and

z each are identical or different and are independently 0 or 1,

$\text{R}^6$  is a radical of the formula

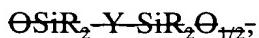


and  $\text{R}^7$  has the definition of R, R' or  $\text{R}^6$ ,

R each independently is an identical or different monovalent, aliphatically saturated hydrocarbon radical having 1 to 12 carbon atoms per radical or an aromatic hydrocarbon radical having 6 to 12 carbon atoms per radical,

~~$\text{R}'$  is a radical of the formula~~

~~$\text{R}'$  each independently is a monovalent, aliphatically saturated hydrocarbon radical having from 1 to 12 carbon atoms or an aromatic hydrocarbon radical having from 6 to 12 carbon atoms and contains one or more non-adjacent heteroatoms selected from the group consisting of O, S, N, Si, and Ti;~~



and D has the definition of C or R or R', with the proviso that D is R or R' if x is 0,  
and optionally compounds (2) of the formula



where

n is 0 or an integer from 1 to 100,

with organo(poly)siloxanes (3) of the formula



where

$\text{R}^3$  is an aliphatically unsaturated hydrocarbon radical of the general formula



and,

m is 0 or an integer from 1 to 200

in the presence of at least one hydrosilylation catalyst (4), to form a branched organosilicon compound,

and optionally in a second step, equilibrating the resulting branched organosilicon compound with at least one organopolysiloxane (5) selected from the group consisting of linear organopolysiloxanes containing terminal triorganosiloxy groups and linear organopolysiloxanes containing terminal hydroxyl groups.

18. (Previously Presented) The process of claim 17, wherein said crosslinkable silicone coating composition comprises

- (A) at least one organosilicon compound having radicals containing one or more aliphatic carbon-carbon multiple bonds, said organosilicon compound having radicals containing one or more aliphatic multiple bonds different from said branched organosilicon antimisting compound,
  - (B) at least one organosilicon compound containing Si-bonded hydrogen atoms,
  - (C) at least one hydrosilylation catalyst,
- and optionally
- (D) one or more inhibitors.

19. (Previously Presented) A crosslinkable silicone coating composition with reduced aerosol formation, comprising

- (X) at least one antimisting additive described in claim 13,
  - (A) at least one organosilicon compound having radicals containing one or more aliphatic carbon-carbon multiple bonds, different from (X),
  - (B) at least one organosilicon compound containing Si-bonded hydrogen atoms,
  - (C) at least one hydrosilylation catalyst,
- and optionally,
- (D) one or more inhibitors.

20. (Previously Presented) A crosslinkable silicone coating composition with reduced aerosol formation, comprising

- (X) at least one antimisting additive described in claim 17,
  - (A) at least one organosilicon compound having radicals containing one or more aliphatic carbon-carbon multiple bonds, different from (X),
  - (B) at least one organosilicon compound containing Si-bonded hydrogen atoms,
  - (C) at least one hydrosilylation catalyst,
- and optionally,
- (D) one or more inhibitors.

21. (Previously Presented) A shaped body produced by crosslinking the composition of claim 19.

22. (Previously Presented) The shaped body of claim 21 which is a coating.

23. (Previously Presented) The shaped body of claim 21, which is a release coating for tacky substances.

24. (Previously Presented) A process for producing coatings, comprising applying the crosslinkable composition of claim 19 to a surface to be coated and crosslinking the composition.

25. (Previously Presented) A process for producing coatings, comprising applying the crosslinkable composition of claim 20 to a surface to be coated and crosslinking the composition.